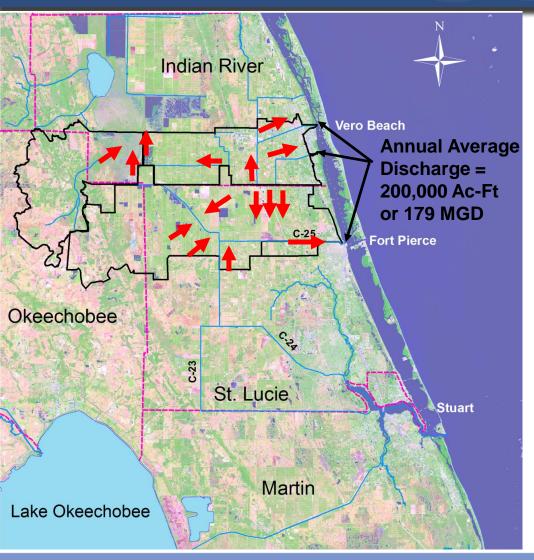


Mark Elsner, P.E., Director Water Supply Development Division

**December 10, 2009** 



#### **Study Background**

- Construction of C&SF Project significantly effected historic drainage in this area
- Large volumes of water discharged during the wet season through canals
- Upper East Coast Water Supply Plan recommended studying capturing this water for beneficial uses



#### **Study Overview**

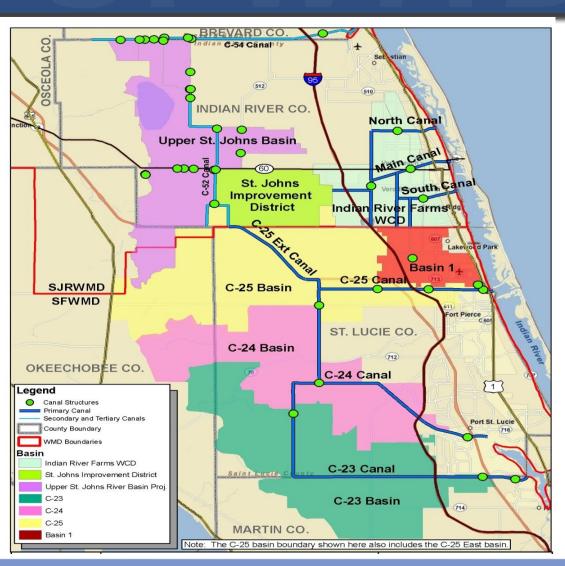
- Co-sponsored by SFWMD & SJRWMD
- Initiated February 2009
- Completed November 2009
- Extensive outreach
  - Interagency project team meetings
  - Stakeholder meetings and workshops



#### **Study Objectives**

- Evaluate potential of capturing excess water being discharged to Indian River Lagoon & making it available for beneficial uses
- Evaluate options for increased flexibility in water management
- Identify & evaluate conceptual alternatives
- Provide a conceptual design for a preferred alternative
- Develop an implementation strategy

#### Study Area





#### **Final Alternative Plans**

- C-25 Central Storage Reservoir
- C-23, 24, and 25 Central Storage Reservoir
- C-25/Basin 1 Central Storage Reservoir
- Indian River Farms WCD Reservoir
- Dispersed storage/water farming

#### **Evaluation Matrix**

	Discharge Delivery Rate –	Flow Reductions to	Present Value Life
Alternative Plan	90% Reliability (cfs/mgd)	IRL (acre-ft/yr)	Cycle Costs
ICS-01(A)	90/58	78,897	\$177,875,000
ICS-01(B)	67/48	58,563	\$131,478,000
ICS-02(A)	185/120	142,236	\$309,072,000
ICS-02(B)	140/90	113,139	\$211,396,000
ICSB-01	108/70	84,462	\$193,074,000
IRFWCD-R(A)	63/41	44,295	\$98,239,000
IRFWCD-R(B)	53/34	40,214	\$61,656,000



#### C-23, 24, 25 Central Reservoir Plan – Preferred Alternative

- 5,000-acre central storage reservoir
- 5,000-acre stormwater treatment area
- Replace C-25 plug with water control structure
- C-25 canal improvements
- G-81 pump station
- S-253 pump station

